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(54) **SYSTEM AND METHOD FOR
PRE-OPERATIVELY DETERMINING
DESIRED ALIGNMENT OF A KNEE JOINT**

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(58) **Field of Classification Search**

None
See application file for complete search history.

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(57) **ABSTRACT**

A joint alignment method comprises using imaging data of
at least a portion of a leg to create a leg model, wherein the
leg model includes a femur having medial and lateral
condyles and a tibia having tibial plateaus that are config-
ured to engage the medial and lateral condyles at a knee
joint, displaying an image of the leg model for manipulation
by a user, locating a pivot point within one of the medial or
lateral condyles, and rotating, in the displayed image, the
tibia with respect to the femur, about the pivot point, to
obtain a desired knee joint articulation in a specified plane.

14 Claims, 25 Drawing Sheets

